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Dr. Yerkes, Chairman of the Psychology Committee, emphasized the need of psychological studies of recruits, and mentioned the far-reaching significance of such studies in the selection of men for special purposes.

The meeting adjourned at 1.50 p.m.

CARY T. HUTCHINSON,
Secretary.

NATIONAL RESEARCH COUNCIL

MEETINGS OF THE EXECUTIVE COMMITTEE

The twenty-fourth meeting of the Executive Committee convened in the offices of the Council in the Munsey Building, Washington, D. C., on July 12, 1917, and was called to order at 9.30 a.m. by the Chairman of the Counci .

Messrs. Bogert, Hale, Millikan, Pupin, and Stratton were present and, by invitation, Messrs. Durand and Mendenhall.

The Chairman reported:

1. That the Director of the Council of National Defense has requested the National Research Council to submit to him regular monthly reports of its activities, and that in order to comply therewith the Chairmen of the Committees of the Research Council have been asked to forward reports periodically to the Washington office with regard to the nature, organization and progress of investigations, and the results of researches, inquiries, and conferences bearing upon the work of the Council.

2. That Admiral William S. Benson and Dr. W. F. Durand have been appointed members of the Council by the President of the National Academy of Sciences.

The Chairman read a letter from General Squier, dated July 2, requesting the Research Council to act as the advisory agent of the U. S. Signal Corps in the organization of its various scientific activities and in the solution of research problems and suggesting that Dr. Millikan apply for a Major's Commission in the Officers' Reserve Corps, for detail in charge of this work. Upon motion it was voted that this request be complied with.

Before this formal arrangement was entered into with General Squier, upon his request that the Council recommend some one to take charge of the sound ranging work of the Army, Dr. Augustus Trowbridge of Princeton was designated. Upon motion the Executive Committee ratified this action.

Dr. Millikan reported that General Squier had referred to the Council a cablegram from Colonel Russell of the American Expeditionary Force in France, asking that a research and inspection group be sent over to France at once. He also stated that Major Carty has designated Mr. E. H. Colpitts and Mr. H. E. Shreve for signal work in this connection.

Dr. Durand reported on the question of the development and production of aeronautic instruments, and upon the need for a scientific advisor in this field. It was voted, upon motion, that the National Research Council recom-

mend to General Squier the appointment of Dr. C. E. Mendenhall in charge of the design and development of all instruments used on airplanes.

Dr. Millikan reported that on recommendation of the National Research Council the General Munitions Board held a special meeting devoted to the problem of gas warfare, to which representatives of the Departments of the Government having any connection with the subject were invited, as well as members of the Noxious Gases Committee of the Council. Dr. Ames and Dr. Dakin of the Foreign Service Committee were also present; and the subject under discussion was presented at length by M. Grignard of the French Scientific Mission. As a result of this meeting the Chairman of the General Munitions Board was authorized to appoint a special committee to make recommendations concerning a proper organization of gas warfare. Dr. Millikan has been appointed on this committee as a representative of the National Research Council.

Upon recommendation of Dr. Bogert, as Chairman of the Chemistry Committee:

The appointment of a Subcommittee on Synthetic Drugs with Professor Julius Stieglitz of the University of Chicago as Chairman, was approved.

The appointment of Dr. Prevost Hubbard as Chairman of the Subcommittee on the Chemistry of Cements and Related Building Materials, upon the resignation of Dr. A. S. Cushman, who has entered the service of the War Department, was approved.

The appointment of Dr. George H. A. Clowes and Professor J. U. Lloyd as members of the Subcommittee on the Chemistry of Glue and other Colloids was approved; also the appointment of Mr. David Wesson as Vice-Chairman of the Subcommittee on Fats, Fatty Oils, and Soaps.

The Submarine Committee of the National Research Council with the following membership was approved: R. A. Millikan, Chairman; H. D. Arnold, W. F. Durand, Irving Langmuir, Frank B. Jewett, C. E. Mendenhall, Ernest Merritt.

It was decided that the necessary travelling expenses of the group working at New London be borne by the Research Council, this being A. A. Michelson, Chairman; Ernest Merritt, Vice-Chairman; H. A. Bumstead, Max Mason, E. F. Nichols, G. W. Pierce, H. A. Wilson, and John Zeleny.

The following appropriations were made: $300 to be expended under the authorization of the Vice-Chairman of the New London Committee for expenses in connection with submarine investigation; $670.62 for purchase of a portable house for use at the station; and $30 to Dr. H. A. Wilson for the purpose of making a condensing lens for sound rays.

The appointment of a Botanical Raw Products Committee with the following membership was approved: Edward M. East, Chairman; Oakes Ames, L. H. Dewey, Henry Kramer, George T. Moore, John E. Teeple, and additional members to be appointed later.

The organization of a Subcommittee on Forest Products of the Botany Committee was approved. The Chairman of the Council was authorized

in consultation with the Chairman of the Botany Committee to select the Chairman and members of this subcommittee.

The appointment of the Committee on Anthropolgy with the following membership was approved: W. H. Holmes, Chairman; Ales Hrdlicka, Secretary; Charles B. Davenport, Madison Grant, Frederick L. Hoffman, E. A. Hooton, George M. Kober, Tom A. Williams. A report of this committee was presented, a copy of which had been sent to the Secretary of War, its recommendations having also been presented to the General Medical Board of the Council of National Defense.

The meeting adjourned at 12.10.

The twenty-fifth meeting of the Executive Committee convened in Room 518 Munsey Building, Washington, D. C., on July 23, 1917, and was called to order at 9.35 a.m. by the Chairman of the Council.

Messrs. Bogert, Conklin, Dunn, Hale, Millikan, Pearl, Pupin, and Stratton were present and, by invitation, Messrs. Durand and Mendenhall.

The Chairman read a letter from Brigadier-General Crozier reporting that Col. E. B. Babbitt, a member of the Committee on Noxious Gases of the Council, had been appointed to other duty in the War Department, and that Capt. Earl J. W. Ragsdale had taken Colonel Babbitt's place in the Bureau of Ordnance. Upon his recommendation therefore, Captain Ragsdale was substituted as a member of the Committe on Noxious Gases in place of Colonel Babbitt.

Upon recommendation of Dr. Hale, the sum of $100 was appropriated for current and miscellaneous expenses of the Astronomy Committee.

The Chairman stated that, after conference with the Chairman of the Botany Committee, he wished to recommend the appointment of Dr. Irving W. Bailey of the Bussey Institution as Chairman of a Subcommittee on Forestry of the Botany Committee. Upon motion, this appointment was accordingly made.

The Chairman stated that need had arisen for funds to carry on work of experimentation in connection with the investigation of devices for the magnetic detection of submarines now in progress by Dr. L. A. Bauer, Director of the Department of Terrestrial Magnetism of the Carnegie Institution of Washington. He also stated that this work had the approval of the President of the Carnegie Institution of Washington. Upon motion, an appropriation of $500, or as much thereof as may be needed, was made from the funds of the Council for the assistance desired in this connection.

Dr. Hale reported that he had recently visited the work of the special committees of the council at Nahant, Massachusetts, and New London, Connecticut, outlining the nature of investigations carried on in each place. Upon motion, it was voted that an appropriation of $2,000, or as much thereof as may be needed, be made to defray the miscellaneous expenses incident to the work of the Committee at New London.

At 9.50 the Chairman announced that the meeting would resolve itself into a joint meeting of the Executive Committee and of the Military Committee of the Council, to hear reports and recommendations of the members of the Foreign Service Committee who had returned from Europe. (A report of this conference will appear later.)

The twenty-sixth meeting of the Executive Committee convened in the offices of the Council in the Munsey Building, Washington, D. C., on July 31, 1917, and was called to order at 10.10 a.m. by the Chairman of the Council.

Messrs. Hale, Noyes, Pearl, Stratton, Vaughan, and, by invitation, Dr. Durand, were present.

The Chairman reported the recent death of Dr. William Bullock Clark, Chairman of the Subcommittee on Roads and Road Metals of the Geology Committee of the Council.

The question of defraying the cost of publication of articles relative to the work of the National Research Council in the Proceedings of the National Academy of Sciences was discussed and, upon motion of Dr. Noyes, it was voted to appropriate from time to time such sums as may be necessary to pay the cost on a pro rata basis of space used, of publishing all such reports and articles.

Upon recommendation of the Chairman of the Chemistry Committee, the following appointments were made to membership in Subcommittees of this Committee.

Sub-Committee on Biochemistry: Prof. FRANK P. UNDERHILL, Yale University, New Haven Conn.; Chairman, to replace Dr. A. E. Taylor, resigned.

Sub-Committee on the Chemistry of Ceramics: Mr. A. V. BLEININGER, U. S. Bureau of Standards, Pittsburgh, Pa.; Mr. L. E. BARRINGER, General Electric Co., Schenectady, N. Y.

Sub-Committee on the Chemistry of Leather: Mr. FRITZ H. SMALL, 38 Berwick Street, Worcester, Mass.; Mr. JOHN H. YOCUM, 325 Academy Street, Newark, N. J.; Mr. H. C. REED, 227 Fulton Street, New York City.

Sub-Committee on the Chemistry of Forest Products: Dr. C. P. WINSLOW, Forest Products Laboratory, Madison, Wis.

Sub-Committee on the Chemistry of Dyestuffs: Mr. WM. M. GROSVENOR, 50 East 41st Street, New York City; Mr. L. DACOSTA WARD, 320 So. Broad Street, Philadelphia, Pa.; Mr. R. C. HUSTON, Michigan Agricultural College, East Lansing, Mich.

Sub-Committee on the Chemistry of Fermentation: Dr. H. S. PAINE, U. S. Dept. of Agriculture, Washington, D. C.; Dr. MAX HENIUS, 1135 Fullerton Avenue, Chicago, Ill.

Sub-Committee on Synthetic Drugs: Dr. W. A. PUCKNER, 535 North Dearborn Street, Chicago, Ill.; Prof. MOSES GOMBERG, University of Michigan, Ann Arbor, Mich.; Prof. ROGER ADAMS, University of Illinois, Urbana, Ill.

Dr. Hale reported that he soon expects to return to California, and discussion took place thereupon relative to the conduct of affairs of the Council during his absence. It was voted that meetings of the Executive Committee of the Council he held hereafter about once a month, or at such times as business demands, and that notices of such meetings be sent in advance accompanied by tentative orders of business.

The Chairman presented a letter from the U. S. Commissioner of Patents requesting the co-operation, advice and assistance of the National Research Council in questions of organization and conduct of affairs at the Patent Office. Preliminary correspondence with the Commissioner of Patents on this subject was also read. After discussion, a special committee consisting of Prof. W. F. Durand, Chairman, Dr. R. A. Millikan and Dr. S. W. Stratton, was appointed to confer with representatives of the Patent Office and report at a subsequent meeting of the Executive Committee relative to appropriate action which the Council may take in this matter.

The meeting adjourned at noon.

Subject to ratification at the next meeting of the Executive Committee, the Chairman subsequently appointed a special committee consisting of Dr, Millikan, Chairman, and Messrs. Bogert, Durand, Mendenhall, Stratton. and Vaughan, to meet once a week to consider questions relating to the conduct of affairs of the Council in intervals between the meetings of the Executive Committee.

CARY T. HUTCHINSON, *Secretary.*